# INDEX TO VOLUMES III. AND IV.

Page.
Acerates Feayi, n. sp 12
Actinomeris heterophylla, n. sp 6
Æcidium abundans, n. sp 34
“ Bigeloviæ, n. sp 34
“ Brandegei, n. sp 34
“ gaurinum, n. sp 218
“ Giliæ, n. sp 230
“ gracilens, n. sp 128
“ hemisphæricum, n. sp 34
“ intermixtum, n. sp 231
“ monoicum, n. sp 230
“ Polemonii, n. sp 230
“ porosum, n. sp 34
Æstivation of Mahernia verticillata 173
Agaricus amabilipes, n sp 216
“ chlorinosmus, n. sp 137
“ Morgani, n. sp 137, 208
Alternanthera lanuginosa in Kan 158
Alternation of Generations 240
Ames, Mrs. M. E. P 14
Andropogon arctatus, n. sp 20
Anemone Caroliniana 86
Arctic Timber 215
Aristida condensata, n. sp 19
“ gyrans, n. sp 18
“ simpliciflora, n. sp 18
Arthur, J. C 78
Aster Tradescanti and miser 101
Austin, C. F 6, 29, 70, 150, 161
Austin, Mrs R. M 70, 91
Bailey, W. W 38, 173, 194, 214, 215, 216
Baptisia calycosa, n. sp 65
“ sulphurea, n. sp 65
“ Notes on 129
Barnes, C. R 13, 123, 167, 181, 196
Beal, W. J 13, 113
Bebb, M. S 21, 190
Beheading Flies by Mentzelia 213
Bessey, C. E 85
Bibliographical Index 55
Big Trees 87, 91
Bingham, Mrs 226
Boltwood, H. L 219
Botanical Contributions, Gray 55, 220
“ Excursions 24
“ Text-book 194, 226
Botanists, Address to 105, 189
Botrychia not Ferns 113
Botrychium lunarioides 39
Bovista spinulosa, n. sp 170
“ subterranea n. sp 216
Brandegee, T. S 32, 146, 166
Brandt, W. E 211
Broadhead, G. C 24, 51, 58, 232
Bryum Atwateriæ 79
“ flexuosum, n. sp 152
Burgess, R 47, 115
Butler G. D 1, 65, 71
Calkins, W. W 209, 242
Calymperes Donnellii, n sp 151
Canby, W. M 65, 129, 153
Carbonic Acid in Air of Forests 119
Carex comosa 192
“ intumescens and Grayi 221
Carnivorous Plants 215
Cassia nictitans 98
Caucalis Anthriscus 148
Cellulosporium, gen. nov 171
“ sphærosporum, n. sp 171
Cenangium platascum, n. sp 231
Cenchrus strictus, n. sp 20
Changes in Vegetation 7, 22
Chapman, A. W 2, 9, 17
Chickering, J. W 238
Chorisis in Campanula Medium 200, 207
Coleman, N 7
Colorado Berberis 231, 242
Colorado, Notes from 166, 247
Commons, A 41
Comparative Anatomy of Lvs 246
Coniferæ of the Crestones 32
Conoclinium dichotomum, n. sp 5
Convolvulus Garberi, n. sp 11
Coreopsis aristosa 38
Cotyledons 2-parted in Eschscholtzia 200
Coulter, J. M. 24, 87, 109, 173, 192, 194, 196, 197
198, 199, 200, 220, 234.

Page.
Cronartium Comandræ, n. sp 128
Cross Fertilization in Lobelia 124
Crotalaria maritima, n. sp 4
Curtiss, A. H 36, 117, 132, 154, 232
Cyperus cylindricus, n. sp 18
“ retrorsus, n. sp 17
Cypripedium with second Labellum 199

Dakota. Notes from 171
Darlingtonia Californica 70, 91
Dasystoma patula, n. sp 10
Davenport, Geo E 51, 54
Dentaria lacaniata 56
Diatrypella Frostii, n. sp 35
Dichogamy of Rhododendron maximum 192
“ Spigelia Marilandica 214
Dicranum angustiretis, n. sp 150
“ Donnellii, n sp 150
“ Virginicum, n sp 150
“Die Pilze des Weinstockes” 46
Dimorpho-dichogamy in Juglans 237
Distinction between Monocot. and Dicot 197

Eaton, D C 71, 89, 96
Eggert H 241
Engelmann, G 1, 65
Epipactis Helleborine 206, 225
Eucalyptus globulus 29
Eupatorium suaveolens, n. sp 5
“ tortifolium, n sp 5
Extempore Botanic Garden 215

Farlow, W. G 244
Fendler, A 57
Fern Catalogue 101
Fern Etchings 233
Ferns of Florida 82, 139, 177
“ “ Kentucky 54, 96
“ “ Missouri 128
“ “ N. America 139
“ “ Trinidad 71, 89
Fertilization of Yucca 242
Fissidens Donnellii, n. sp 151
Fission of Lvs in Peach 214
Flint, Wm. F 87
Floating Fern 232
Flora of N. America 64, 93
“ “ “ Distribution of 147
Florida Plants 2, 9, 17, 153, 227, 242
Florida, Shell Islands 117, 132, 154
Flowers and Snow 146
Ford C. H 56, 86
Foreign Plants in Gulf States 42
Forests of Central Nevada 187
Forest Trees of U. S 97
Fortress Monroe, Autumnal Flora 238
Fourteen Weeks in Botany 235
Frasera Carolinensis 140
Fresh Water Algæ 18
Fungi, New Species 34, 126, 137, 169, 216, 230
Fungi on Forest Trees 244
Fungoid Friends and Foes 125

Garber, A. P 82
Genera Plantarum 241
Gentiana linearis 220
Gerardia tenuifolia, var 153
Glue for the Herbarium 215
Grafting, Natural Radical 47
Gray, Asa 36, 41, 55, 81, 106, 153, 158, 182, 190, 206
207, 208, 210, 213, 214, 215, 222, 225, 226, 241
Greene, E. L 231
Grimmia subincurva, n. sp 31
Gymnospermy of Coniferæ 222
Gymnosporangium speciosum, n. sp 217

Hairs of Lychnis Githago 167
Hall, E 83, 140
Harrington, Mark 100
Harvey, P. F 171
Heliopsis vs. Helianthus 123
Hepaticology 6
Heteromorphism in Plantago cordata 86
Hickories, Mortality among 22
Hill, E. J 239
Hooker, J. D 147, 225
Hubregtse, A 39
Huckelberry, Range in Mo 24
Hussey, John 166

Bruce Fink. 13550 (56 v.)

41502

# INDEX CONTINUED.

Page.

Hypnum Brandegei, n. sp 31
“ Caloosiense, n. sp 161
“ Donnellii, n. sp 162
“ Royæ, n. sp 31
Hypomyces Banningii, n. sp 139

Illinois, Notes from Ottawa 219
Indiana, Flora of 109
Indian Territory, Plants of 49. 65, 70, 74
Influence of Scion on Stock 165
Interesting Demonstration 196
Iowa, Flora of 78, 115
Island of Trinidad, Flora of 57
Isoetes Butleri, n sp 1
Isoetes of Indian Territory 1

James, J. F 209
Jefferson county, Ind., Addenda to Flora 13
Jones, M. E 247
Juniperus occidentalis in Col 87

Kansas Plants of 71
Kunze, R. E 53

Late Flowers 38
Law Governing Sex 101
Leaf propagation 237
Leavenworthia Michauxii 24
Lecythea speciosa, n. sp 34
Lemmon, J. G 24, 61, 87, 91
Lichens of S. Illinois 21
Liliaceæ, Revision of 198
Lilium Philadelphicum, 4-merous 200
“ “ 5-merous 207
Lloyd, C. G 148
Lobelia 35
Lobelia Floridana, n. sp 9
Lockwood, S 29
Lowrie, J. R 99
Lycoperdon Frostii, n. sp 139

Martindale. I. C 73
Medicinal Plants in Cal 89
Meehan, Thos 22. 98, 101, 158, 165, 227, 242
Melanthium Virginicum 232, 241
Merulius sulcatus. n. sp 138
Michigan. Notes from 163
Microscope, A Convenient 34
Miller. E. S 207
Milligan, Mrs. J. M 23, 87. 219
Missouri Plants. Distribution of 5 , 58
Mistletoe Parasitic on Itself 36
Mohr, Chas 42
Monotropa uniflora 37, 53. 79
Montana. Notes from 171
Morgan, A. P 120, 142, 208, 221, 240
Mosses. New Species. 29, 150, 161
Muhlenbergia cæspitosa, n. sp 18
Munro, Wm 148

Neckera Floridana, n. sp? 152
Nelumbium luteum 13. 81. 100
Nomenclature 39, 61, 158
Nomenclature in E. U. S. Polypet 193 210
Nutritition of Drosera rotundifolia 199

Ohio, Notes from Toledo 219
Ophioglossum palmatum 141
Orobanche minor in N. J 73

Panicum amplectens, n sp 20
“ littorale, n. sp 106, 148
Panton. M H 86
Partridge-berries, White 109 207
Patterson, H. N 208
Paxillus hirsutus. n, sp 169
Peck, Chas 23, 34, 46, 125, 126 137, 169, 216, 230
Pedicularis Canadensis 163
Petalostemon foliosus 239
Phelps, Mrs Lincoln 79
Phyllotaxis of Leaves 120, 142
Plantago Rugelii 108
Plantains, Two Wayside 41
Plantations in Penn 99
Poa Lemmoni, n sp 13
Polygamous Flowers in Populus 51
Polypodium nematorhizon, n. sp 90
Polyporus Macouni, n. sp 169
Polytrichum 70
Porter. Thos. C 49, 81, 154
Potamogeton 192
Potato Pierced by Grass 100, 113
Preston, H. W 220
Pringle, C G 237
Pronunciation of Botanical Names 85

Puccinia aberrans, n. sp 217
“ atropuncta. n. sp 171
“ cladophila, n. sp 127
“ Grindeliæ, n. sp 127
“ intermixta, n. sp 218
“ nigrescens, n sp 35

Reverchon, Julien 210
Reynolds, Mary C 139 177, 227
Rhaphides in Trillium 173
Rhus Toxicodendron 211 219
Rhytisma sparsa, n sp 171
Robinson, John 113 233
Rothrock. J. T 37, 201, 242
Rothrock's Report 197
Rusby, H. H 192

Salix balsamifera 190
“ Barclayi 21
Sanford, J. A 219
Sargent, C. S 187
Schneck. J 24, 35
Scolopendrium vulgare 215
Scutellaria montana, n. sp 11
Scutia ferrea—Reynosia latifolia 208
Seeds of Erodium cicutarium 209
Self fertilization of Plants 182
Septoria Lactucæ, n, sp 170
“ podophyllina, n. sp 170
“ Trillii, n. sp 170
Shepard, E. M 128
Shortia galacifolia re-discovered 106
Shriver. Howard 72
Smith, Erwin F 163, 168, 180
Smith, J D 141
Sorghum pauciflorum. n. sp 20
Sorosporium Astragal , n. sp 218
“ Desmodii, n. sp 35
Southern Plants 55
Spence, Mrs E J 39
Sphærella megastoma. n. sp 231
Sphæropsis Raui, n. sp 34
Staining of Vegetable Tissues 201
Starch in Chlorophyll 194
Sullivantia Ohionis 24
Syracuse Botanical Club 206

Tension in an Oak 234
Texas, Flora of Dallas county 210
Thrinax Garberi, n. sp 12
Tillandsias under cultivation 209
Todd. J. E 124
Tortula Donnellii, n. sp 31
Trichobasis gaurina. n. sp 218
“ Oxytropi, n. sp 218
Trichocolea Biddlecomiæ, n. sp 6
“ gracillima, n. sp 6
Trichostomum? subdenticulatum. n. sp 29
Trillium from Mich 180, 232
Trimorphism in Lithospermum 168
Triplasis sparsiflora, n. sp 19

Uromyces Brandegei, n.sp 127
“ hyalinus n. sp 34
“ plumbarius. n. sp 127
“ sanguineus, n. sp 128
“ simulans, n. sp 127

Vaccinium macrocarpon 235
Variations 39
Vasey. Geo 13. 97, 106
Veratrum Woodii 208
Viburnum involucratum, n. sp 5
Virginia, Notes from Blue Ridge 72
Viscidity as a Seed-distributor 227
Vitality of Seeds of Datura Tatula 49

Walnuts, Large 24
Watson, Louis 71
Watson, Sereno 93
Weeds at Sta. Barbara, Cal 226
Western Plants 81
West Va., Notes from 181
Wheeler. C. F. 86
Willey, H. 21, 22
Willows of Cal. 212
Wolle, Francis 68
Wood, A. 49, 70
Wright, Albert A. 100
Wright, S. H. 232

Yellow Snow 154
Young, A. H. 37, 79
Yucca Draconis 14